



Respectfully submitted,

MATHEWS, COLLINS, SHEPHERD & MCKAY, P.A.

Brian L. Buckwalter

By: Brian L. Buckwalter  
Registration No. 46,585  
Agent for Applicants

July 3, 2002  
100 Thanet Circle, Suite 306  
Princeton, NJ 08540-3662  
Telephone 609-924-8555  
Telecopier 609-924-3036

RECEIVED  
JUL 16 2002  
TC 1700



PTO/SB/21 (08-00)

Please type a plus sign (+) inside this box →

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>		Application Number	10/051,877	
		Filing Date	10/25/01	
		First Named Inventor	Harchekar, Vijay Rajaram	
		Group Art Unit	1742	
		Examiner Name		
Total Number of Pages in This Submission		<b>5</b>	Attorney Docket Number	4752-105 US

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers <i>(for an Application)</i> <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group <i>(Appeal Notice, Brief, Reply Brief)</i> <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) <i>(please identify below):</i> <b>Prior Art - Non Patent Literature Documents as listed on IDS</b>
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Brian L. Buckwalter Reg. No.: 46,585
Signature	
Date	July 3, 2002

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: <input type="text"/> July 3, 2002	
Typed or printed name	Joyce Maule
Signature	
Date	July 3, 2002

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Substitute for form 1449A/PTO		<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number	10/051,877
(use as many sheets as necessary)		Filing Date	10/25/01
Sheet 1 of 2		First Named Inventor	Harchekar, Vijay Rajaram
		Group Art Unit	1742
		Examiner Name	
		Attorney Docket Number	
		4752-105 US	

<b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1	WAYMAN, C.M., "Some Applications of Shape-Memory Alloys", Journal of Metals, 32 (June 1980), pps. 129-137.	
	2	MICHAEL A.D. & HART, W.B., "SME Brass - A New Engineering Material", Metall. Material. Technol., Vol. 12 (1980), pps. 434-440.	
	3	WHITE, S.M., COOK, J.M. & STOBBS, W.M., "The Grain Size Dependence of The Loading and Reversion Behaviour of A Cu-Zn-A1 Marmem Alloy Deformed Below M <sub>f</sub> ", Journal De Physique, C4 (ICOMAT-82), pps. 779-783.	
	4	GOLESTANEH, Ahmad A., "Shape-Memory Phenomena", Physics Today, (April 1984), pps. 62-70.	
	5	SABURI, T., WAYMAN, C.M., TAKALA, K. & NENNO, S., "The Shape Memory Mechanism in 18R Martensitic Alloys", Acta Metallurgica (Jan 1980), Vol. 28, pps. 15-32.	
	6	SCHETKY, L. McDONALD, "Shape-Memory Alloys", Scientific American, 241 (Nov. 1979), pps. 68-76.	
	7	ADNYANA, DEWA N., "A Copper-Based Alloy For Shape Memory Wires and Springs", Wire Journal International, (1984), pps. 52-61.	
	8	IKAI, Y., MURAKAMI, K. & MISHIMA, K., "Stability of the Shape Memory Effect - Effect of Grain Size Refinement", Journal De Physique, C4 (ICOMAT-82), pps. 785-789.	
	9	ENAMI, K., TAKIMOTO, N. & NENNO, S., "Effect of the Vanadium Addition on the Grain Size and Mechanical Properties of the Copper-Aluminium-Zinc Shape Memory Alloys", Journal De Physique, C4 (ICOMAT-82), pps. 773-778.	
	10	HIGGINS, RAYMOND A., "Copper and the Copper-Base Alloys", Engineering Metallurgy, Vol. 1, (1971), pps. 312-323	
	11	WEST, E. G., "Copper and Its Alloys", Ellis Horwood Ltd. Series in Industrial Metals, 1982, pps. 98-105.	

Examiner Signature	Date Considered
--------------------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

Substitute for form 1449A/PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

### Sheef

of 2

***Complete if Known***

Application Number	10/051,877
Filing Date	10/25/01
First Named Inventor	Harchekar, Vijay Rajaram
Group Art Unit	1742
Examiner Name	
Attorney Docket Number	4752-105 US

## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.